National

WVP-F10
Video Camera
PAL

F10
WHITE BALANCE
SET
AWC
ATW
AGC
HIGH
LOW
OFF
AUTO IRIS
CLOSE
OPEN
STANDBY
ON
National
F10
CCD

F10 Camera —— Component Video Camera

National
AF
8X 1:1.4 10.5~84mm TV Zoom Lens
FADE
REC REV
W T

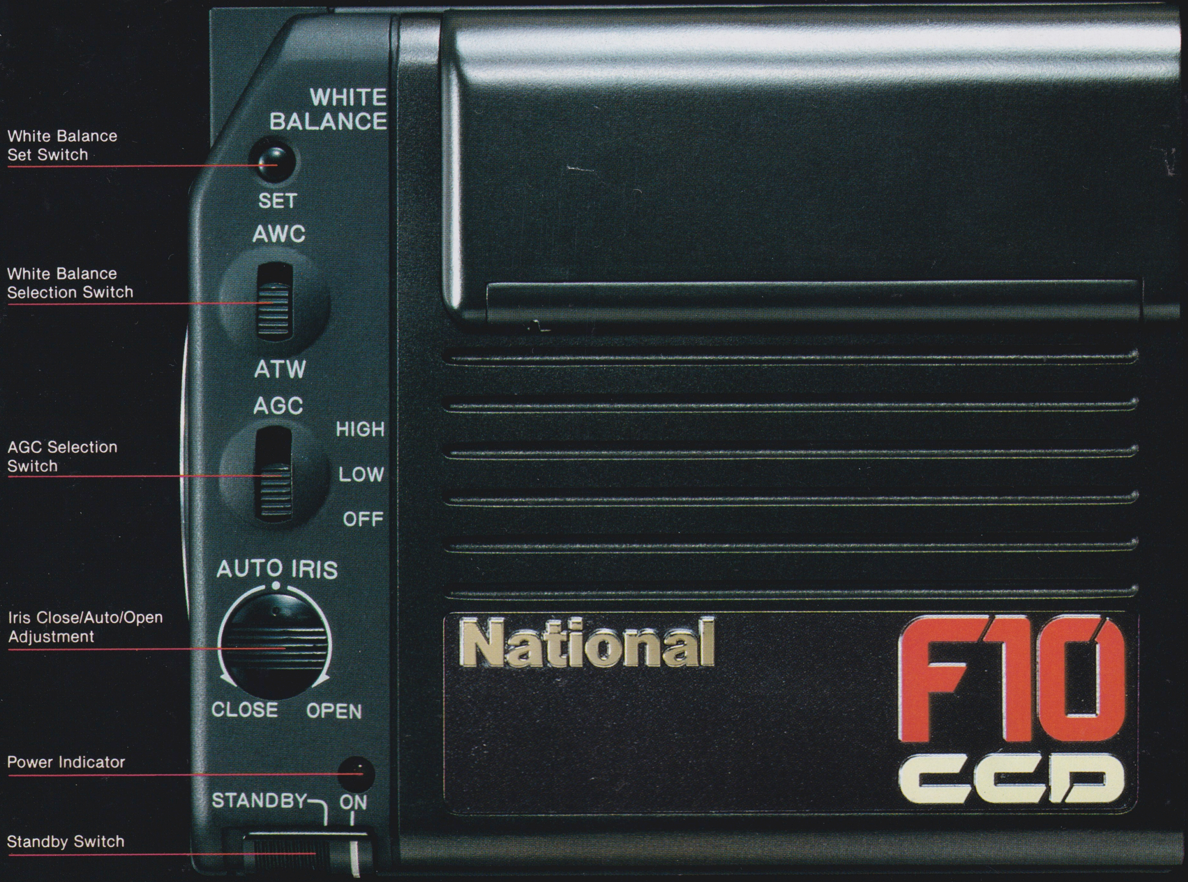
System

WHITE BALANCE
SET
AWC
ATW
AGC
HIGH
LOW
OFF
AUTO IRIS
CLOSE
OPEN
STANDBY
ON
National
F10
CCD
PLAY

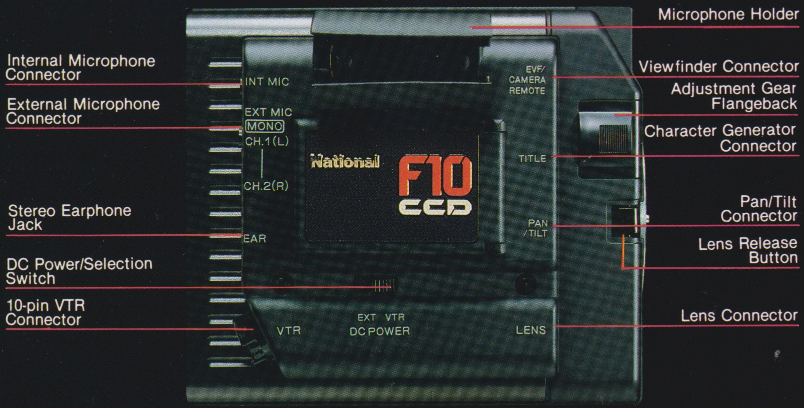
National's advanced technology has successfully introduced an evolutionary approach to the conventional concept of video cameras. Introducing the F10, the component video camera that offers a variety of system configurations and functions to accommodate a variety of video applications. An assortment of available accessories can be used to tailor your camera system to meet your specific needs and to provide unlimited system potential. The F10 embodies the evolution to tomorrow's video camera today.

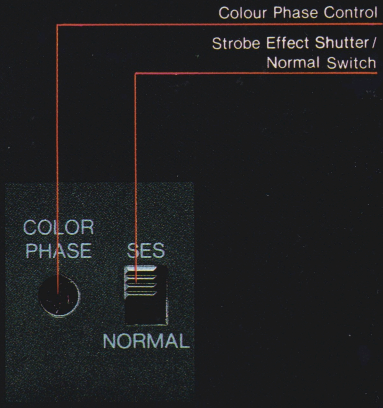
The Core of Video Creativity F10

In terms of system expansion, what can be expected of a video camera that forms the nucleus of a video system? The F10 was designed with this in mind by providing the necessary camera functions to meet the needs of video camera enthusiasts. Although functions beyond this basic level can be added to support specific applications, anything less could not be called "evolutionary".


White Balance Set Switch
White Balance Selection Switch
AGC Selection Switch
Iris Close/Auto/Open Adjustment
Power Indicator
Standby Switch
WHITE BALANCE
SET
AWC
ATW
AGC
HIGH
LOW
OFF
AUTO IRIS
CLOSE
OPEN
STANDBY
ON
National
F10
CCD

Life Size


Internal Microphone Connector
External Microphone Connector
Stereo Earphone Jack
DC Power/Selection Switch
10-pin VTR Connector
Microphone Holder
Viewfinder Connector
Adjustment Gear Flangeback
Character Generator Connector
Pan/Tilt Connector
Lens Release Button
Lens Connector
INT MIC
EXT MIC
MONO
CH.1(L)
CH.2(R)
EAR
VTR
EXT VTR
DC POWER
EVF/CAMERA REMOTE
TITLE
PAN/TILT
LENS
National
F10
CCD


Colour Phase Control
Strobe Effect Shutter / Normal Switch
COLOR PHASE
SES
NORMAL

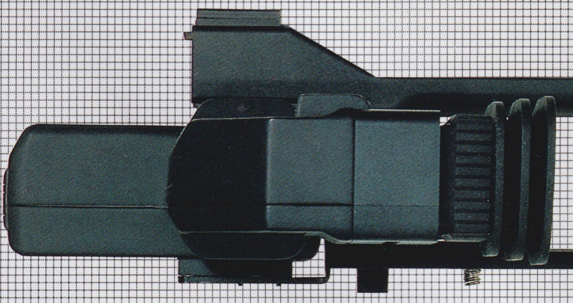
WVP-F10 (Camera Head only)

Specifications **Pick-up System:** Integrated colour mosaic filter single chip CCD system **Pick-up Element:** 2/3"CCD, 574 (H) × 581 (V) pixels, interline transfer with colour mosaic filter **Horizontal Resolution (Luminance):** 380 lines at center **Signal-to-Noise Ratio (Luminance):** 46dB **Illumination Required:** 1400 Lux at F4.0 **Required Minimum Illumination:** 7Lux at F1.4 with high gain position **White Balance:** Auto Tracing White Balance (ATW) or Manual Setting (AWC) **Automatic Gain Control (AGC):** OFF, LOW (+12dB), HIGH (+18dB) **Lighting Level Indicator:** Zebra select ON/OFF switch **Dimensions:** 138.5 (W) × 114 (H) × 136 (D) mm **Weight:** 0.9kg

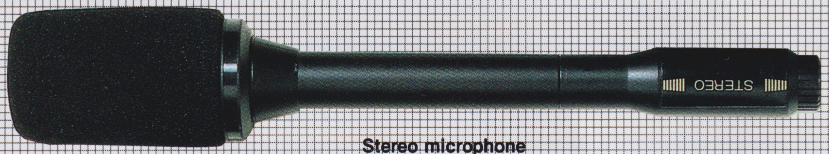
Portable Camera Kit
(WV-KT100)

Standard Configuration

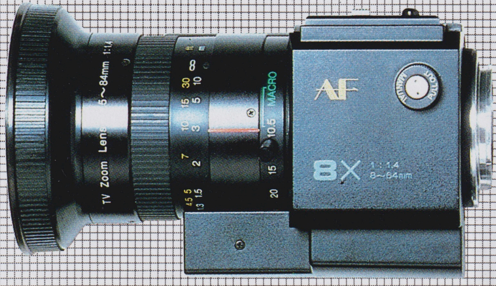
8x Auto Focus lens:	WV-LZ14/8AF
1″ Electronic viewfinder:	WV-VF01
Shoulder pad/grip:	WV-GR12
Stereo microphone:	WV-MC12
Cheek pad:	WV-Q43
VTR cable:	WV-CA10
Camera strap:	WV-Q44



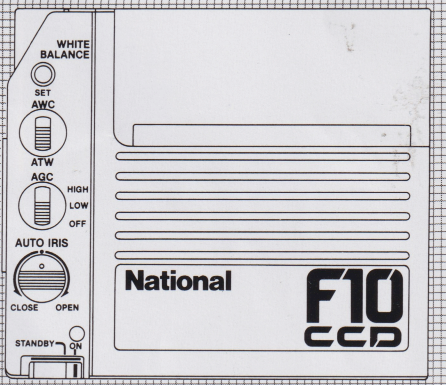
1″ Electronic viewfinder



Stereo microphone


AF
8X 1:1.4 8~64mm
MACRO
TV Zoom Lens

8x Auto focus lens


WHITE BALANCE
SET
AWC
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HIGH
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AUTO IRIS
CLOSE
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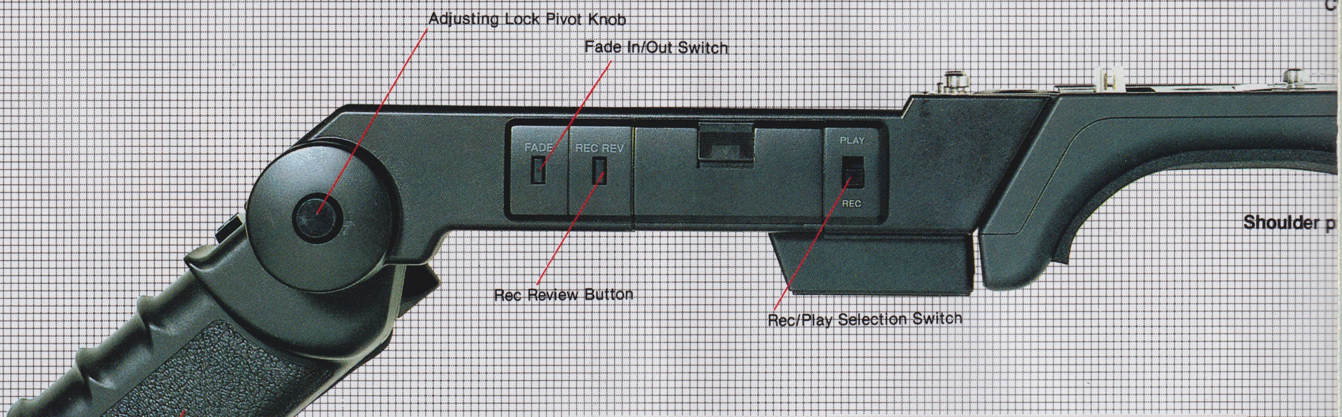
STANDBY
ON
National
F10
CCD

C


Adjusting Lock Pivot Knob
Fade In/Out Switch
FADE
REC REV
PLAY
REC
Rec Review Button
Rec/Play Selection Switch
Adjustable Handheld Arm

Shoulder p

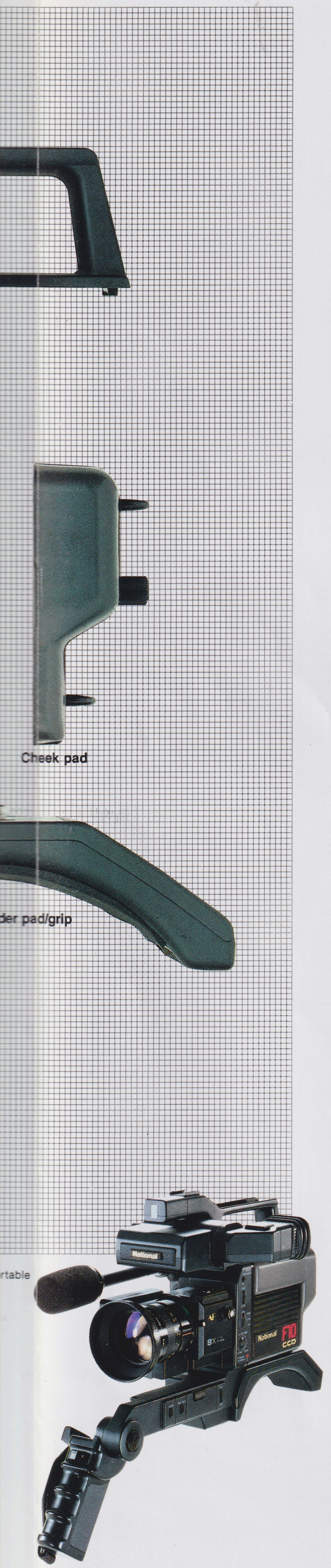
VTR Cable

Camera strap

WVP-F10 with WV-KT100 Specifications

Power Source:
12V DC
Power Consumption:
5.7W (MIN), 18W (MAX)
Scanning:
625 lines/50 fields/25 frames per second
Pick-up System:
Integrated colour mosaic filter single chip CCD system
Pick-up Element:
2/3"CCD, 574 (H) × 581 (V) pixels, interline transfer with colour mosaic filter
Video Output Level:
1.0 Vp-p PAL composite/75 ohms
Horizontal Resolution (Luminance):
380 lines at center
Signal-to-Noise Ratio (Luminance):
46dB
Illumination Required:
1400 Lux at F4.0
Required Minimum Illumination:
7 Lux at F1.4 Lens with High gain position
Internal Microphone:
Detachable Stereo Electret Condenser Microphone
External Microphone:
−65 dB, 600 ohms, unbalanced M3 Jack × 2 (Stereo)
Audio Output:
−20 dB / −60dB (Selectable) High impedance
Earphone Output:
8 ohms M3 Stereo Jack
Lens:
WV-LZ14/8AF
(1) **Auto Focus:** YES
(2) **Zoom Ratio:** 8×
(3) **Focal Length:** 10.5 ~ 84mm
(4) **Maximum Aperture Ratio:** 1:1.4 (F1.4)
(5) **Focusing Range:** 1.3m ~ ∞
(6) **MACRO Range:** 5cm ~ 1.3m
(7) **Iris Range of AIC:** F1.4 ~ 22, close
(8) **Field Angle:**
  Diagonal: TELE 7.3° WIDE 55.6°
  Horizontal: TELE 6.1° WIDE 44.3°
  Vertical: TELE 4.6° WIDE 39.9°
(9) **Filter Diameter:** 58 mm P = 0.75
(10) **Flange Focal Length:** 17.526 mm
(11) **Zoom Speed:**
  FAST: Approx. 6 seconds
  SLOW: Approx. 9 seconds
Lens Mounting:
Bayonet Mount
Viewfinder:
Black and White 1" Electronic Viewfinder with Character Display
White Balance:
Auto Tracing White-Balance (ATW) or Manual Setting (AWC)
Automatic Gain Control (AGC):
OFF, LOW (+12dB), HIGH (+18dB)
10-pin VTR Cable Length:
Approx. 2m
Maximum 10-pin VTR Cable Length:
Approx. 20m between camera and portable VTR or Power supply
10-pin Connecter Allocation:
1. Video In/Out
2. Ground for Video
3. Serial Data Pulse (or Open)
4. Rec Tally and Serial Clock Pulse
5. Standby/Audio (CH2(R)) Out
6. Rec Start/Pause Out
7. Audio (CH1(L)) Out
8. Ground for Audio
9. Ground
10. +B/12V In

Operational Ambient Temperature:
0 ~ 40°C
Operational Ambient Humidity:
Less than 90%
Dimensions:
248 (W) × 246 (H) × 437 (D)mm
Weight:
3.1 kg



Enhanced Functionality WV-KT100

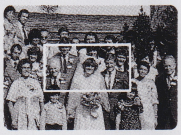
The KT 100 is a basic kit for those users who demand convenience in video camera operation. Convenience through simplicity.

TTL (Through The Lens) Auto Focus 8x Power Zoom Lens

AF

This sophisticated system uses a large array of sensors and a microprocessor-controlled focusing lens to achieve higher precision and extremely quick response, even to drastic changes in shooting distance. As the detection and adjustment of the optimum focusing condition is all done inside the camera, you can shoot objects through glass. By using the optional 1.5x tele converter (WV-CL19), it is possible to achieve a 12x magnification while retaining the Auto Focus facility.

"Magic Window" Three-Step Selectable TTL Auto Focus Zone



A newly developed TTL type of Auto Focus lets you focus automatically for easy and accurate reproduction. The new three-step Auto Focus zones are displayed in the viewfinder to help you determine the optimum focus zone for your needs. Simply press the button to select the focus required. Easy as one, two, three.

Super Low Light

7LUX

The new CCD and highly sensitive F1.4 lens enables recording under lighting conditions as low as 7 lux. This feature lets you shoot distinct, precise images under the most adverse lighting conditions anytime, anywhere. A major advantage over the lighting restrictions of conventional video cameras.

Upgraded Capabilities WV-KT100/WV-KT200

Character Generator Function

87 VACATION
11:35:38
15.6.87

The built-in time and date function lets you record the time/date of filming. The Title function lets you add titles to your video productions. Titles consist of character strings of up to 12 characters (alphanumerics and special symbols) per line that can be inserted at the bottom of the screen. The date, time or title can be selected for display on the screen.

Fade-in/Fade-out Function (Audio/Video)

Use this function to create complex fading of audio/video tracks for studio-quality effects of transitions between different scenes. Simply press this button to simultaneously fade the sound and picture in or out. Simple and very effective.

Negative/Positive Picture Reversal

Add special effects to your recordings using this function. Turn normal positive images into negative ones at any point with a simple key touch operation or use the optional Film Slide Adaptor (WV-AD15B) to transfer 110/35 mm negatives or slide film to video.

One-inch Electronic Viewfinder Character Display

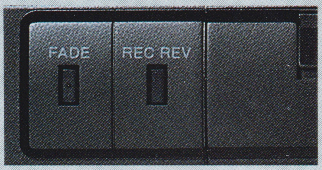
Simply look into the viewfinder for such information as the current mode being used (recording mode (REC) or fade mode (F)) to help you maintain reliable system operation. Warning signals are also displayed informing you of abnormalities such as a low VTR power supply (BATT), incorrectly set white balance (WHITE), or the end of the tape (TAPE), allowing corrective action to be taken.

VTR Remote Control Function

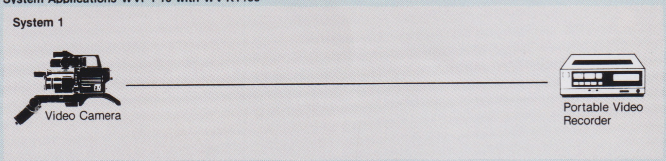
This standard function lets you remotely control the PLAY, CUE, and REVIEW functions of a portable VTR, such as the NV-180. A helpful function to make spot checks on the viewfinder.

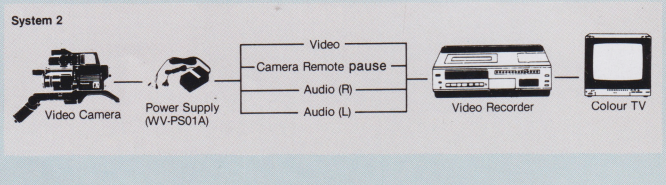
REC Review

When using the F-10 with the portable NV-180 VTR, simply press the REC REVIEW button to automatically rewind and play back the last few seconds of recording, and return to the pause mode. Through this function, checks can be made quickly and conveniently.



System Applications WVP-F10 with WV-KT100



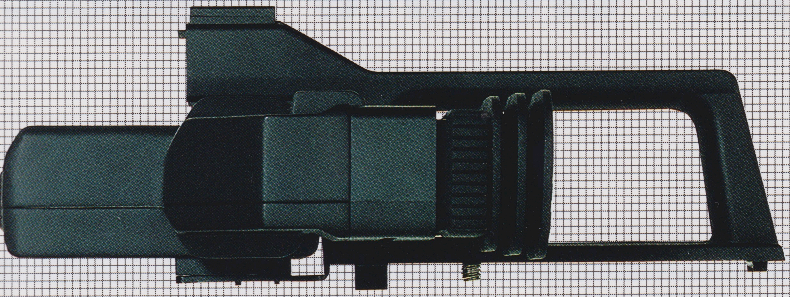


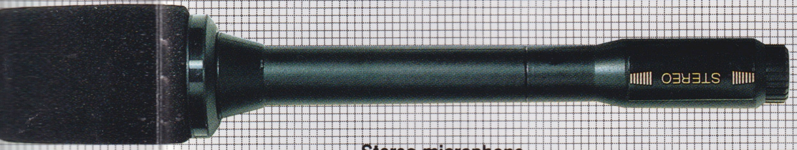
em Camera Kit

200)

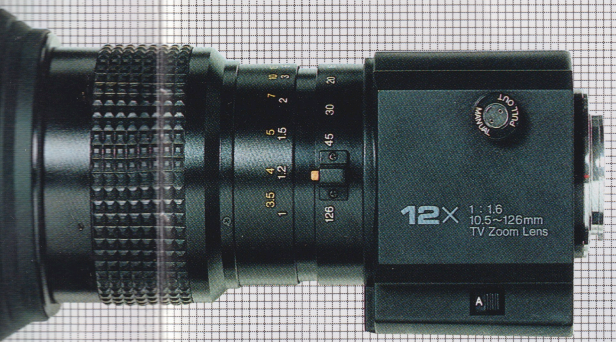
onfiguration

om lens:	WV-LZ14/12
viewfinder:	WV-VF01
grip:	WV-GR12
hone:	WV-MC12
tor:	WV-AD36
	WV-CA10

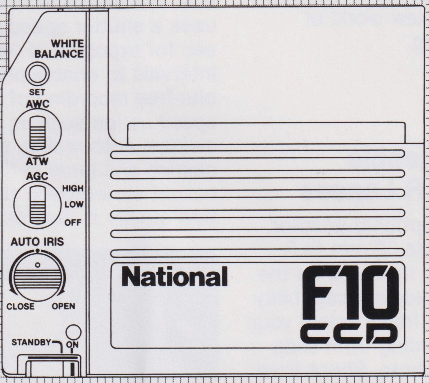

1" Electronic viewfinder

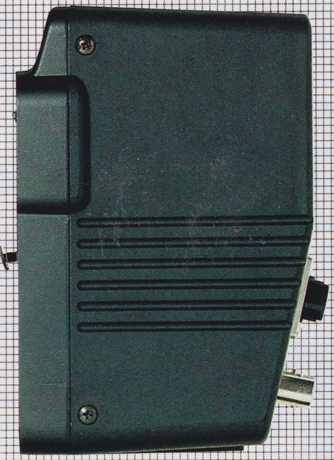


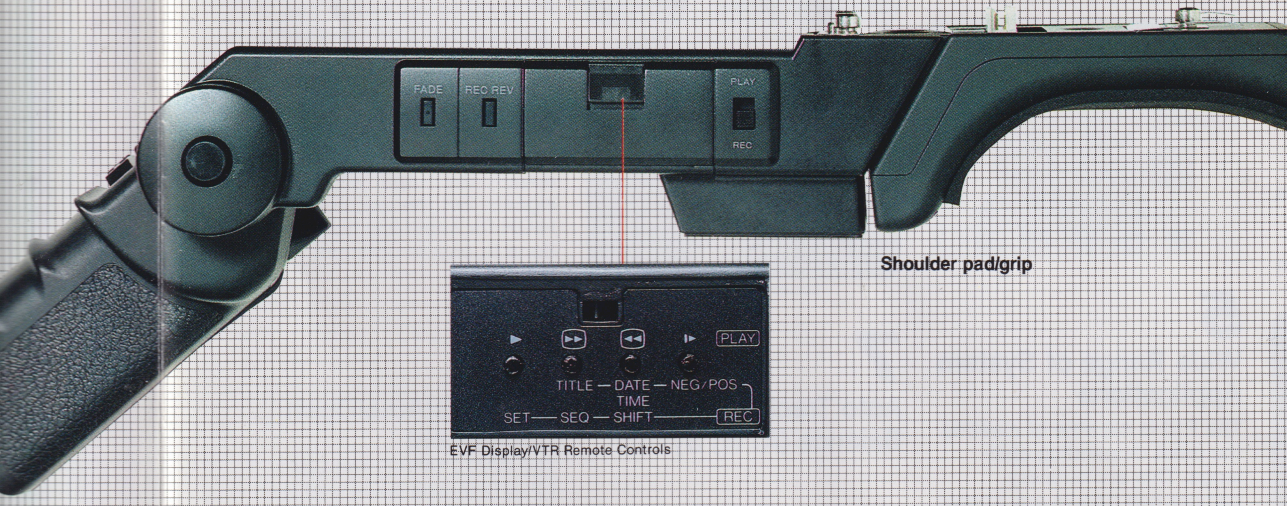
Stereo microphone



12x Power zoom lens

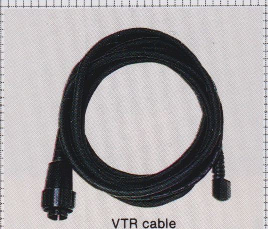



Gen-lock adaptor



Shoulder pad/grip

EVF Display/VTR Remote Controls


VTR cable

National
F10
CCD

WVP-F10 with WV-KT200 Specifications

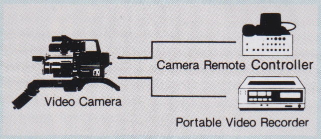
Power Source:
12V DC
Power Consumption:
5.7W (Min), 18W (Max)
Scanning:
625 lines/50 fields/25 frames per second
Pick-up System:
Integrated colour mosaic filter single chip CCD system
Pick-up Element:
2/3"CCD 574 (H) × 581 (V) pixels interline transfer with colour mosaic filter
Video Output Level:
1.0 Vp-p PAL composite/75 ohms
Horizontal Resolution (Luminance):
380 lines at center
Signal-to-Noise Ratio (Luminance):
46 dB
Illumination Required:
1400 Lux at F4.0
Required Minimum Illumination:
10 Lux at F1.6 with HIGH gain position
Internal Microphone:
Detachable Stereo Electret Condenser Microphone
External Microphone:
−65dB, 600 ohms, unbalanced M3 Jack × 2 (Stereo)
Audio Output:
−20dB,/−60 dB (Selectable) High impedance
Earphone Output:
8 ohms M3 Stereo Jack
Lens:
WV-LZ14/12
(1) **Focusing:** Manual
(2) **Zoom Ratio:** 12 x
(3) **Focal Length:** 10.5 ~ 126 mm
(4) **Maximum Aperture Ratio:** 1:1.6 (F1.6)
(5) **Focusing Range:** 1m ~ ∞
(6) **MACRO Range:** 5cm ~ 1m
(7) **Iris Range of AIC:** F1.6 ~ 22, Close
(8) **Field Angle:**
  Diagonal: TELE 4.9° WIDE 57.4°
  Horizontal: TELE 4.1° WIDE 44.3°
  Vertical: TELE 3.1° WIDE 33.9°
(9) **Filter Diameter:** 72 mm P = 0.75
(10) **Flange Focal Length:** 17.526 mm
(11) **Zoom Speed:**
  FAST: Approx. 7 seconds
  SLOW: Approx. 10 seconds
Lens Mounting:
Bayonet Mount
Viewfinder:
Black and White 1" Electronic Viewfinder with Character Display
White Balance:
Auto Tracing White-Balance (ATW) or Manual Setting (AWC)
Automatic Gain Control (AGC):
OFF, LOW (+12dB), HIGH (+18dB)
10-pin VTR Cable Length:
Approx. 2m
Maximum 10-pin VTR Cable Length:
Approx. 20m between Camera and Portable VTR or Power Supply
10-pin Connecter Allocation:
1. Video In/Out
2. Ground for Video
3. Serial Data Pulse (or Open)
4. Rec Tally and Serial Clock Pulse
5. Standby/Audio (CH2(R)) Out
6. Rec Start/Pause Out
7. Audio (CH1(L)) Out
8. Ground for Audio
9. Ground
10. +B/12V In

Operational Ambient Temperature:
0 ~ 40°C
Operational Ambient Humidity:
Less than 90%
Dimensions:
248 (W) × 246 (H) × 476 (D)mm
Weight:
3.5kg

Intermittent Recording

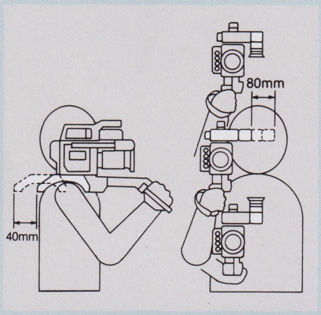
Intermittent recording can be done when the NV-180 portable VTR is used with the optional WV-CR12 Camera Remote Controller. For example, by setting recording for 10 minutes with a two-hour delay (REC pause), this sequence will be repeated continuously as required. A very convenient feature enabling time-delayed recording of plant growth, the birth of animals, or the movement of heavenly bodies at night. And recording can be set into the pause mode for up to 99 hours before being activated.

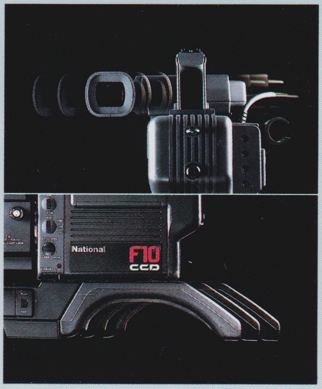
Recording time "R" 0:10:00
Pause time "P" 2:00:00


Camera Remote Controller
Video Camera
Portable Video Recorder

Ergonomically Designed for Ease of Operation

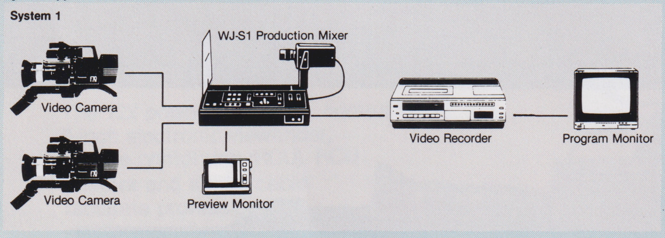
The easily adjustable one-inch electronic viewfinder can be moved to fit the left or right eye at high or low angles to provide the best-possible position. Simply move the shoulder pad forward and backward for the most comfortable position.



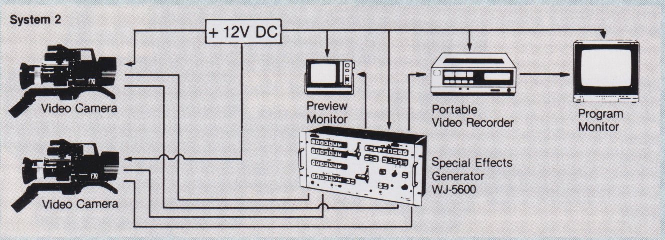

National
F10
CCD

System Applications WVP-F10 with WV-KT200

System 1


WJ-S1 Production Mixer
Video Camera
Video Camera
Video Recorder
Program Monitor
Preview Monitor

System 2


+ 12V DC
Video Camera
Video Camera
Preview Monitor
Portable Video Recorder
Program Monitor
Special Effects Generator WJ-5600

Total Performance WV-KT200

The KT200 is a basic kit for professional use. It can be used with the F10 to enhance sophisticated video creativity.

12x Power Zoom F1.6 Lens

The powerful F1.6 high-multiplication ratio lens represents the ultimate in video image quality. The motor-driven zoom operates smoothly in both wide angle and telephoto modes. Use the power offered by this lens to expand your creative horizon. Furthermore, the lens may be used with the 1.5x optional tele converter to produce a dynamic 18x magnification image.

(12x)

(12x with 1.5x tele converter)

Gen-Lock Sync Function

This handy function lets you use two or more cameras at the same time through external synchronization of video signals. When connected to the WJ-S1 Production Mixer or a special effects generator, a variety of sophisticated video effects are possible such as mixing, wiping and superimposing.

Super Low Light 10 Lux

The feature allows recording under lighting conditions as low as 10 lux. Well-defined and precise video images may be recorded under the most stringent lighting conditions.

System
(WV-KT200)

Standard Configuration

12x Power zoom lens:
1" Electronic viewfinder:
Shoulder pad/grip:
Stereo microphone:
Gen-lock adaptor:
VTR cable:

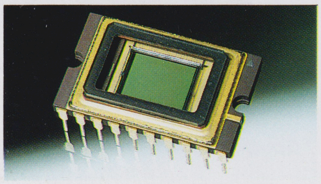
National
12x
National F10 CCD

Convenient F10 Features for That "Creative" Touch.

1

New High-Performance CCD Pick-up Element

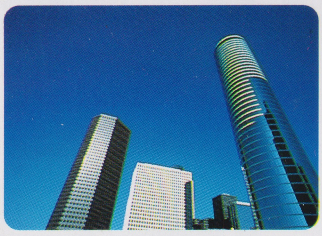
An essential requirement of all video cameras is high image quality. The F10 is equipped with a new 2/3-inch CCD (Charge Coupled Device) to ensure that high quality. This high-performance CCD exceeds the service life of conventional pick-up tubes, and eliminates burn-in, after images, and geometric distortion. Superior reproduction is assured by using approx. 334,000 pixels (picture elements).



2

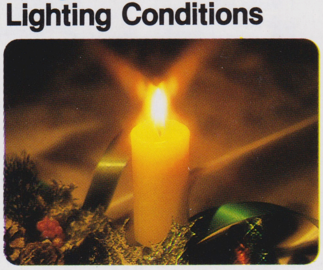
380 Lines Horizontal Resolution

All video users expect accurate, true-to-life images to be recorded. The 380 lines resolution of the F10 ensures sharp clear images to be recorded on any portable or main VTR.



3

Well-defined Video Images Under Low Lighting Conditions



Due to the newly developed CCD, precise, well-defined images are recorded, even under extremely low light conditions of 7 lux with the 8x Auto Focus lens. This allows you the freedom to shoot anywhere, at any time and under any conditions. The F10 lets you experience a new world of video recording.

4

Interchangeable 35 mm SLR Lenses

By using an optional adaptor, interchangeable 35 mm SLR lenses can be mounted on the F10. This convenient capability allows you to freely select your mode of recording from wide angle to telephoto. Shoot from microscopic observations in the laboratory to telescopic scanning of the heavens.

5

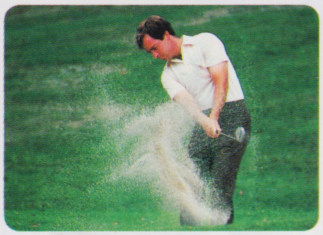
Wide Range of System Applications

The F10 is capable of meeting the most demanding challenge. This evolutionary camera can handle any shooting situation, whether on location or in the studio. Many optional accessories that are easy to mount/demount are available. Because of its ability to accommodate a wide range of applications, the F10 can be customized to meet your video requirements.

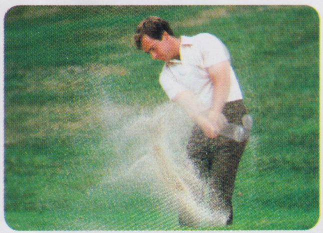
6

Strobe Effect Shutter

Fast moving objects shot using conventional video cameras at slow speeds appear blurred. Not so with the F10. The strobe effect shutter uses a shutter speed of 1/1000 sec for exposure at 1/50 sec intervals to enable precise, blur-free recording of high-speed action such as golfers' swings, auto racing, gymnastics and birds in flight. Excellent slow-motion reproduction quality is also assured.



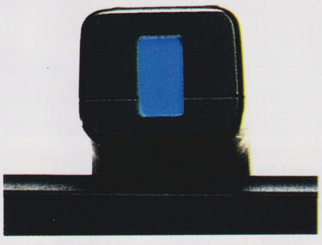
*Stobe Effect Shutter(1/1.000sec.)



Conventional(1/50sec)

7

Auto Tracing White-Balance (ATW) System



National's newly developed ATW system ensures accurate colour video images without having manual white balance (as required for conventional cameras). The RGB colour temperature sensor detects changes in light source, colour temperature, and light intensity based on the angle of incidence. Colour balance is optimally adjusted under microcomputer control, even when switching from fluorescent lamp lighting indoors to direct sunlight outdoors. The standard auto-white circuit operates when not using the ATW system.

8

2H Enhancer

Some video cameras electronically "sharpen" the picture horizontally. In addition to this, the F10 sharpens the picture vertically, giving naturally enhanced recorded pictures.

9

Sensitivity Switch

F10's sensitivity switch has three settings OFF/LOW (+12 dB)/HIGH (+18 dB) so that you'll never miss an opportunity to record a special event. Simply set this switch to LOW under low light conditions to amplify the output video signals. Set the switch to HIGH for super-low light conditions to ensure optimum results.

10

Iris Close/Auto/Open Adjustment

The WV-LZ14/8AF and WV-LZ14/12 lenses developed for the F10 enables manual iris control by manipulating the lens, as well as automatic control when set to the camera body. This two-way operation helps you enjoy simplified camera operation and enhanced technical video image creativity.

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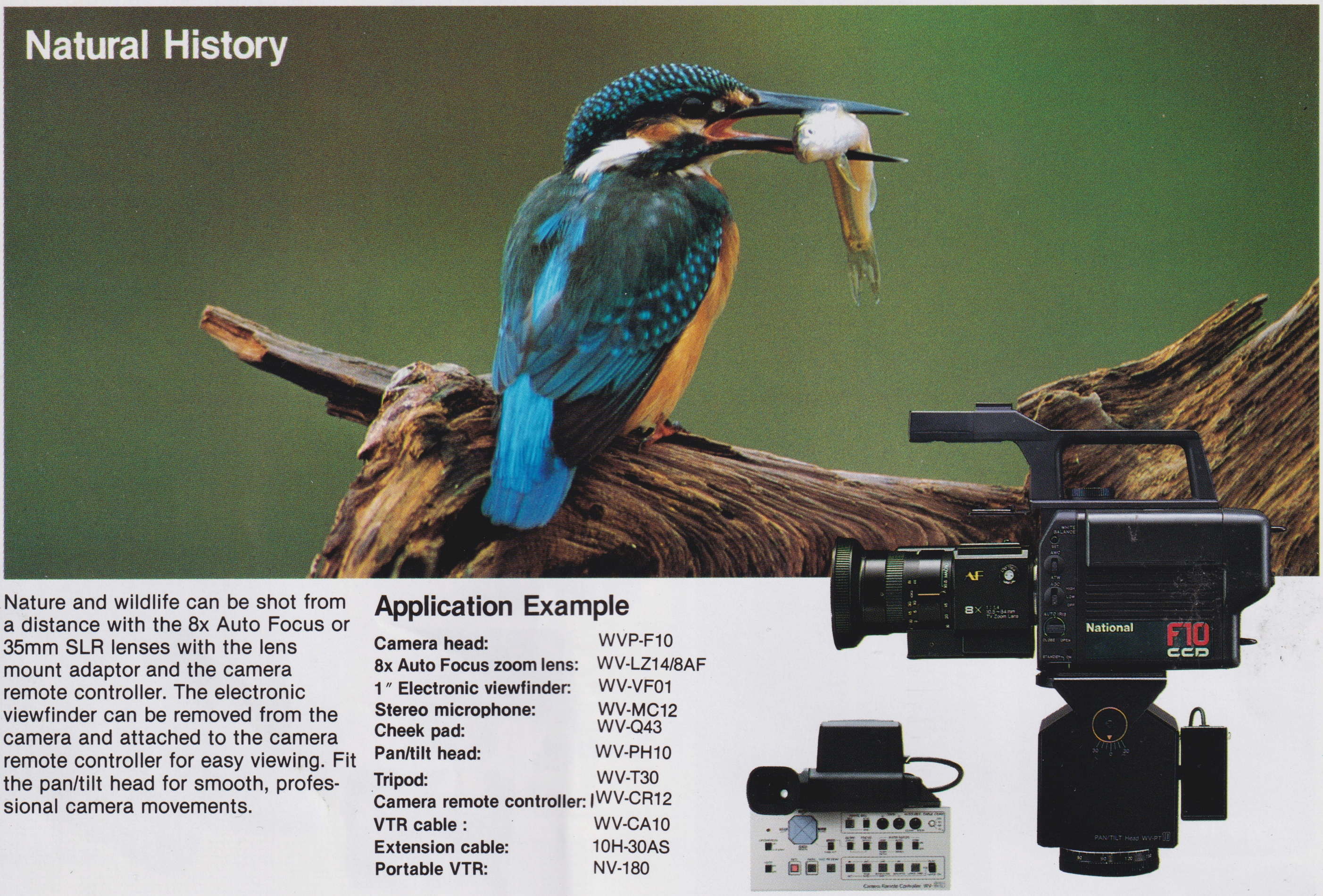
* Lighting conditions over 200 Lux are recommended for operation of the strobe effect shutter. During operation the shutter speed switches from the normal 1/50 sec. to 1/1,000 sec, this reduces the amonut of available light to 1/20 of normal, and decreases sensitivity by 1/20 as well.

System Configurations Tailored to Meet Your Needs

Natural History



Nature and wildlife can be shot from a distance with the 8x Auto Focus or 35mm SLR lenses with the lens mount adaptor and the camera remote controller. The electronic viewfinder can be removed from the camera and attached to the camera remote controller for easy viewing. Fit the pan/tilt head for smooth, professional camera movements.

Application Example

Camera head:	WVP-F10
8x Auto Focus zoom lens:	WV-LZ14/8AF
1″ Electronic viewfinder:	WV-VF01
Stereo microphone:	WV-MC12
Cheek pad:	WV-Q43
Pan/tilt head:	WV-PH10
Tripod:	WV-T30
Camera remote controller:	WV-CR12
VTR cable :	WV-CA10
Extension cable:	10H-30AS
Portable VTR:	NV-180

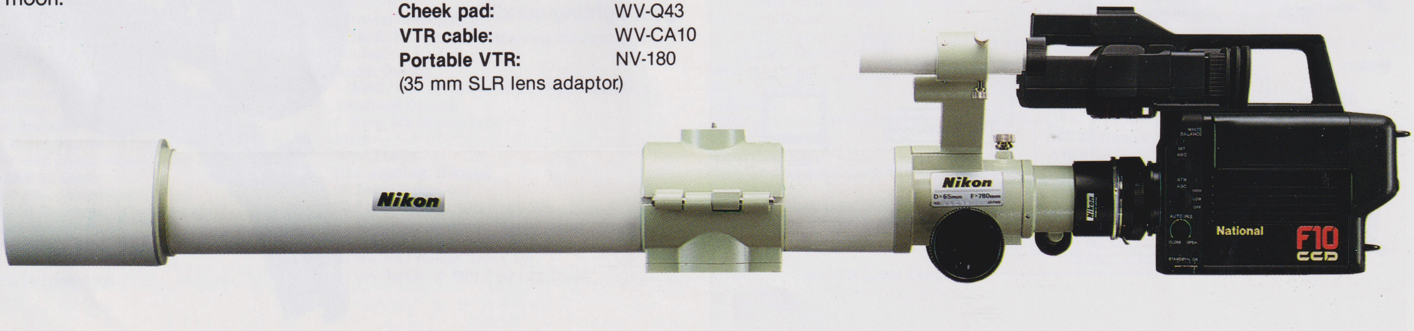
Stargazing

Simply connect to a high-powered telescope to record lunar phases such as crescent moon, half moon, and full moon.

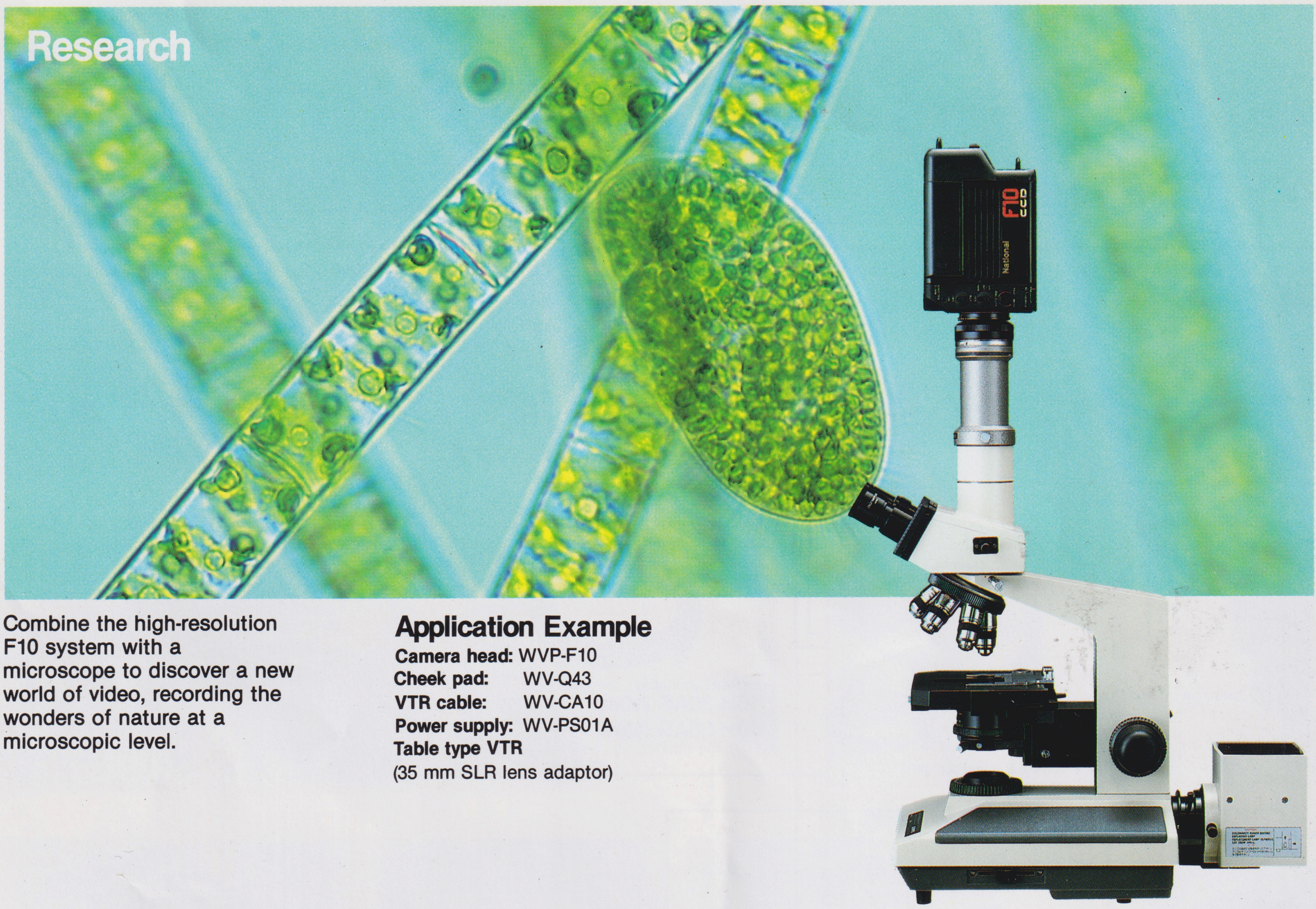
Application Example

Camera head:	WVP-F10
1″ Electronic viewfinder:	WV-VF01
Cheek pad:	WV-Q43
VTR cable:	WV-CA10
Portable VTR:	NV-180

(35 mm SLR lens adaptor)



Research


F10
CCD
National

Combine the high-resolution F10 system with a microscope to discover a new world of video, recording the wonders of nature at a microscopic level.

Application Example

Camera head:	WVP-F10
Cheek pad:	WV-Q43
VTR cable:	WV-CA10
Power supply:	WV-PS01A
Table type VTR	

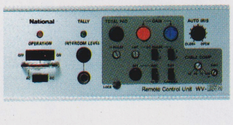
(35 mm SLR lens adaptor)

Studio Use

The 12x power zoom lens, control kit, 5-inch electronic viewfinder, remote contol unit (RCU), RCU adaptor and studio cable facilitate professional studio recording.

Application Example

Camera head:	WVP-F10
12x Automatic iris studio lens:	WV-LZ15/12
Lens control kit:	WV-LK11
5″ Electronic viewfinder:	WV-VF65
5″ EVF bracket:	WV-Q39
RCU adaptor:	WV-AD37
Remote control unit (RCU):	WV-RC35
Studio cable:	14C-30


National
TALLY
OPERATION
INTERCOM LEVEL
TOTAL PED
GAIN
AUTO IRIS
CLOSE
OPEN
OFF
ON
AC
DC
CABLE COMP
CAMERA
Remote Control Unit WV-

Colour Monitoring

MEZZANINE
HARDCOVER & PAPER
BELLES LETTRES
BUSINESS
REFERENCE, SCIENCE
SPORTS, TRAVEL
POETRY
HARDCOVER & PAPER
DANCE, DRAMA
MEDIA
PERFORMING ARTS
RECORDS, TAPES
THEATER
THE WITCHES OF EASTWICK
JOHN UPDIKE
FICTION
Danielle Steel

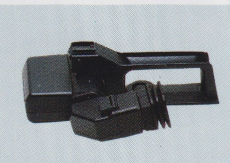
Construct your own system by combining the F10 with the 8x Auto Focus lens and a monitor, at home or in the shop, for door entry/garden monitoring or security applications.

National
F10
CCD
8x

Application Example

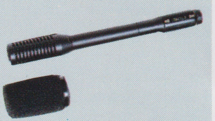
Camera head:	WVP-F10
8x Auto Focus zoom lens:	WV-LZ14/8AF
Cheek pad:	WV-Q43
VTR cable:	WV-CA10
Extension cable:	10H-50AS
Mounting bracket:	WV-831
Power supply:	WV-PS01A
Monitor TV	

Optional Accessories


1″ B/W Electronic Viewfinder
WV-VF01

5″ B/W Electronic Viewfinder
WV-VF65

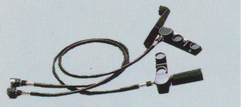
5″ Electronic Viewfinder Bracket
WV-Q39


Stereo Microphone
WV-MC12

Character Generator
WV-KB12

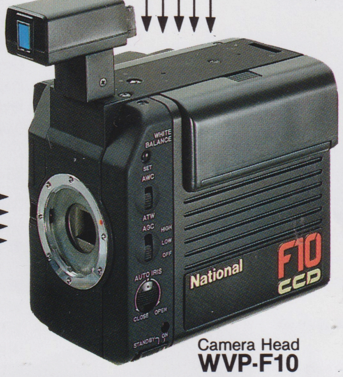
Extension Cable
10H-30AS (10m)
10H-50AS (15m)

Camera
WV-C


Lens Control Kit
WV-LK11

12x Auto Iris Studio Lens
WV-LZ15/12

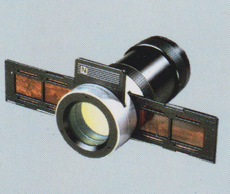
12x Power Zoom Lens
WV-LZ14/12


WHITE BALANCE
SET
AWC
ATW
AGC
HIGH
LOW
OFF
AUTO IRIS
CLOSE
OPEN
STANDBY
ON
National
F10
CCD

C-Mount Lens Adaptor

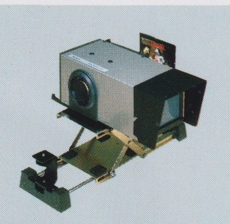
Camera Head
WVP-F10
(C-Mount Lens Adaptor, included)

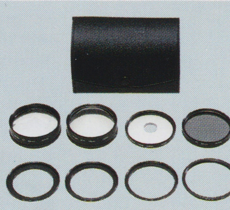
AC Ada
WV-


Film/Slide Adaptor
WV-AD15B

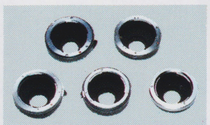
8x Auto Focus Zoom Lens
WV-LZ14/8AF

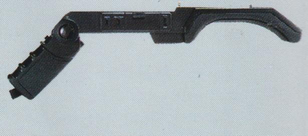
Cheek
WV-


Home Telecine
WV-J20A


Lens Filter Kit
WV-LK10A

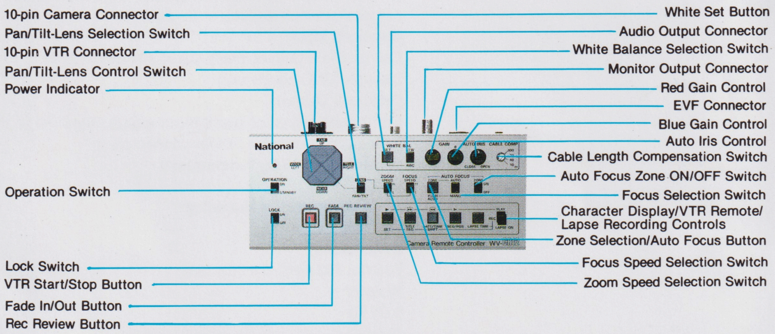
1.5x Tele Conversion Lens
WV-CL19


35mm SLR Lens Adaptor
WV-LT21 (for **CANON**)
WV-LT22 (for **NIKON**)
WV-LT23 (for **MINOLTA**)
WV-LT24 (for **OLYMPUS**)
WV-LT25 (for **PENTAX**)


Shoulder Pad/Grip
WV-GR12

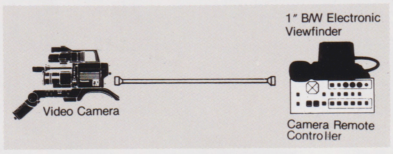
Par
W

Camera Remote Controller WV-CR12

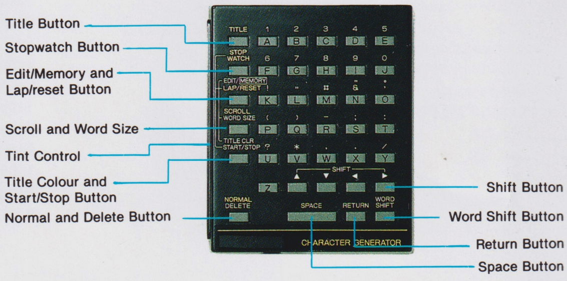

10-pin Camera Connector
Pan/Tilt-Lens Selection Switch
10-pin VTR Connector
Pan/Tilt-Lens Control Switch
Power Indicator
Operation Switch
Lock Switch
VTR Start/Stop Button
Fade In/Out Button
Rec Review Button
White Set Button
Audio Output Connector
White Balance Selection Switch
Monitor Output Connector
Red Gain Control
EVF Connector
Blue Gain Control
Auto Iris Control
Cable Length Compensation Switch
Auto Focus Zone ON/OFF Switch
Focus Selection Switch
Character Display/VTR Remote/Lapse Recording Controls
Zone Selection/Auto Focus Button
Focus Speed Selection Switch
Zoom Speed Selection Switch
National
Camera Remote Controller

The F10 system can be remotely controlled from a distance of up to 20m by simply connecting the WV-CR12 and viewfinder. Such functions and features as lens control, white balance adjustment, pan/tilt control, date/time display, VTR remote control, and intermittent recording can be remotely controlled. In this way, you can easily expand the range of wildlife observation.

Specifications
Power Source: +12V DC
Power Consumption: 1.2 watts
Video Input: 1.0Vp-p PAL composite/75 ohms × 1
Video Output: 1.0 Vp-p PAL composite/75 ohms × 1
Video Monitor Output: 1.0 Vp-p PAL composite/75 ohms × 2
Audio Input: −20dB or −60dB/1K ohm
Audio Output: −20dB or −60dB/1K ohm
Audio Monitor Output: −20dB/1K ohm
Maximum Control Cable Length from Camera: 20m
Dimensions: 210(W) × 41(H) × 88(D) mm
Weight: 0.6 kg


1″ B/W Electronic Viewfinder
Video Camera
Camera Remote Controller

Character Generator WV-KB12

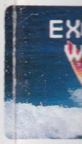

Title Button
Stopwatch Button
Edit/Memory and Lap/reset Button
Scroll and Word Size
Tint Control
Title Colour and Start/Stop Button
Normal and Delete Button
Shift Button
Word Shift Button
Return Button
Space Button
TITLE
STOP WATCH
EDIT/MEMORY
LAP/RESET
SCROLL
WORD SIZE
TITLE CLR
START/STOP
SHIFT
NORMAL DELETE
SPACE
RETURN
WORD SHIFT
CHARACTER GENERATOR

The WV-KB12 includes a full keyboard for creating titles for your video production. Features include an eight-page memory to store titles, one-page scrolling (40 lines) and a stopwatch for displaying lap time. 59 types of characters (alphanumerics & special symbols) can be displayed in three character sizes and in seven selectable colours. Titles can be stored for up to one year by using backup batteries.

Power Source: 8.6V DC 0.05A
- •8 pages of character displays and a scroll feature for versatile program productions
- •Seven selectable colours for characters
- •Three selectable character sizes
- •Stopwatch with lap time feature

Specifications
Backup Battery: LR44 or SR44 1.5V × 3
Dimensions: 65(W) × 26.7(H) × 90.5(D)mm
Weight: 80g

White Cyan Yellow Magenta Blue



Med

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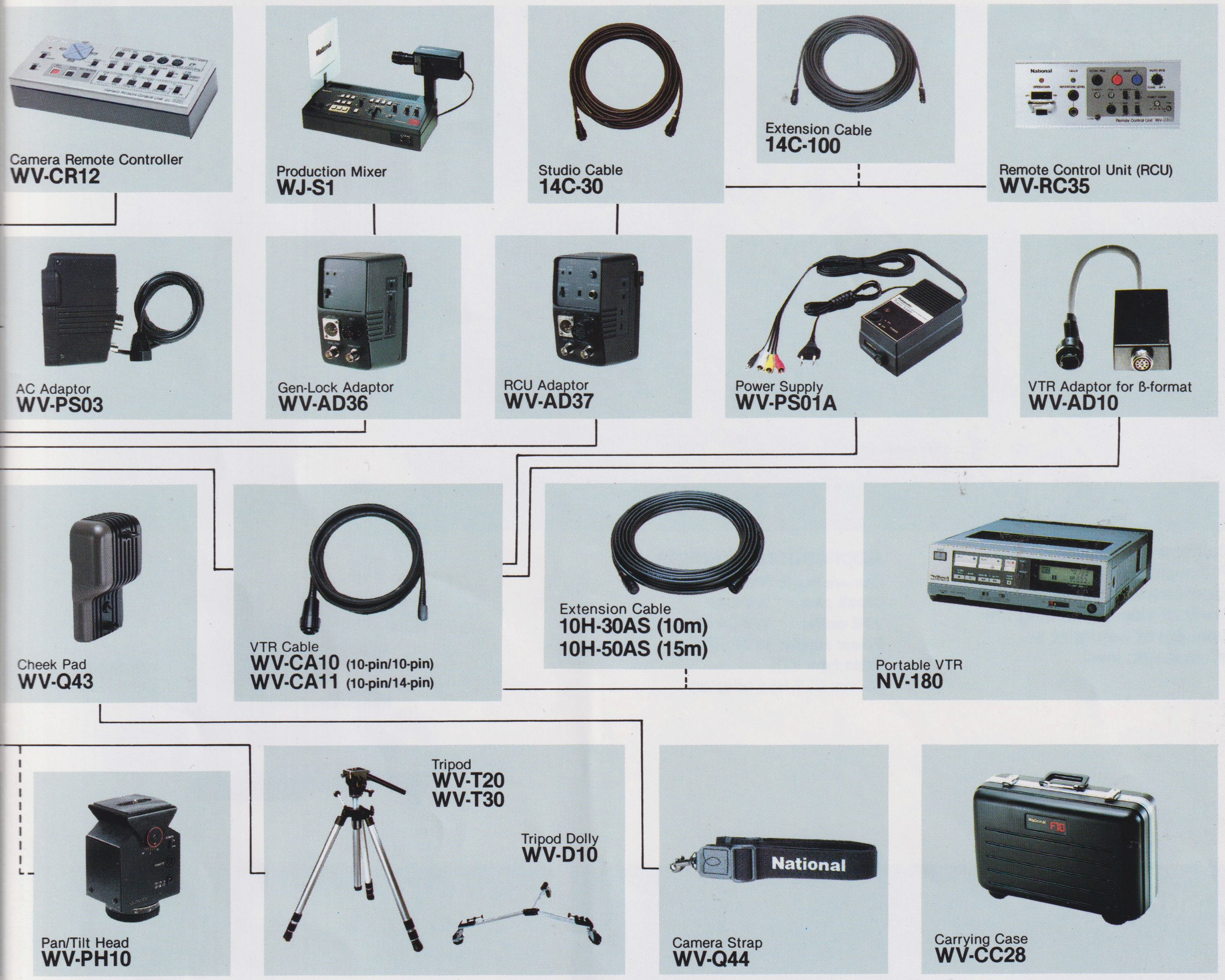
Sto


Camera Remote Controller
WV-CR12
Production Mixer
WJ-S1
Studio Cable
14C-30
Extension Cable
14C-100
Remote Control Unit (RCU)
WV-RC35
AC Adaptor
WV-PS03
Gen-Lock Adaptor
WV-AD36
RCU Adaptor
WV-AD37
Power Supply
WV-PS01A
VTR Adaptor for ß-format
WV-AD10
Cheek Pad
WV-Q43
VTR Cable
WV-CA10 (10-pin/10-pin)
WV-CA11 (10-pin/14-pin)
Extension Cable
10H-30AS (10m)
10H-50AS (15m)
Portable VTR
NV-180
Pan/Tilt Head
WV-PH10
Tripod
WV-T20
WV-T30
Tripod Dolly
WV-D10
Camera Strap
WV-Q44
Carrying Case
WV-CC28

This leaflet is produced for all over the world. Some accessories may not be available in your country.

EXCITING
WORLD

Medium Size

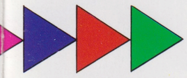
EXCITING
WORLD

Small Size

WORLD
SAIL BOARD
CHAMPIONSHIP 1987

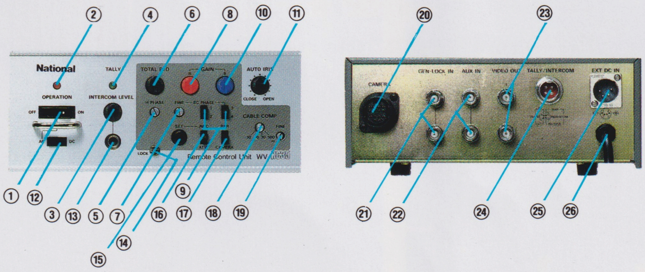
Scroll

Stopwatch



a Blue Red Green

Remote Control Unit (RCU) WV-RC35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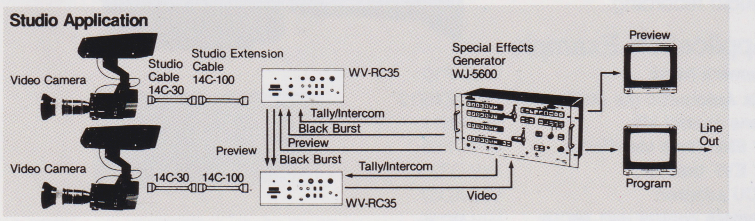
① Operation Switch
② Power Indicator
③ Intercom Level Control
④ Tally Indicator
⑤ Horizontal Phase Control for Gen-lock
⑥ Total Pedestal Control
⑦ Subcarrier phase Fine Control for Gen-lock
⑧ Red Gain Control
⑨ Subcarrier Phase Coarse Switch for Gen-lock
⑩ Blue Gain Control
⑪ Auto Iris Control
⑫ AC/DC Selection Switch
⑬ Intercom Jack
⑭ Lock Screw
⑮ White Set Button
⑯ White Balance Selection Switch
⑰ Colour Bar/Camera Selection Switch
⑱ Cable Length Compensation Switch
⑲ Cable Length Fine Compensation Control
⑳ 14-Pin Camera Connector
㉑ Gen-lock Input Connector
㉒ Auxiliary Input Connector
㉓ Video Output Connector
㉔ Tally and Intercom Input Connector
㉕ 4-Pin External DC Input Connector
㉖ AC Power Cord

Power Source:
220V or 240V AC, 50Hz
12V — 22V DC, 1.85A — 1.1A for camera
Video Input:
1.0 Vp-p PAL composite/75 ohms
(14 pin camera connector)
Video Output:
1.0 Vp-p PAL composite/75 ohms× 2
(BNC connectors)
Gen-Lock Input:
1.0 Vp-p PAL composite or black burst signal/75 ohms or Hi-Z looping through ×1 (BNC connectors)
Subcarrier Phase for Gen-Lock:
Adjustable carese (0°, 90°, 180°, 270°) with Fine control
Aux (Line View) Input:
1.0 Vp-p PAL composite/75 ohms
Hi-Z looping through × 1 (BNC connectors)
Maximum Studio Cable Length:
100m with cable compensator
Tally & Intercom: 4 pin connector
Ambient Operating Temperature:
−10° ~ +45°C
Ambient Operating Humidity:
Less than 90%
Dimensions:
209 (W) ×88 (H) ×225 (D) mm
Weight: 3.3 kg

Studio Application


Video Camera
Studio Cable 14C-30
Studio Extension Cable 14C-100
WV-RC35
Special Effects Generator WJ-5600
Preview
Tally/Intercom
Black Burst
Preview
Line Out
Preview
Black Burst
Video Camera
14C-30
14C-100
Tally/Intercom
Program
WV-RC35
Video

Specifications

B/W CRT Viewfinder: WV-VF01

Power Source:
12V DC 90mA
Video Input:
1.0Vp-p PAL Composite/75 ohms
Horizontal Resolution:
200 Lines
Display Readout:
Alarm (Battery, Tape, White, Light, Backup), Strobe Effect Shutter, Record, Fade, Tape, Title, Date, Time
Dimensions:
208(W) × 230(D) × 75(H)mm
Weight:
0.5 kg

Microphone: WV-MC12

Detachable type, Electret condenser stereo microphone

Gen-Lock Adaptor: WV-AD36

Power Source:
+12V (11V-20V) DC
Video Output:
1.0 Vp-p PAL composite/75 ohms X 1 (BNC connector)
Gen-Lock Input:
PAL composite signal or black burst signal/75 ohms (BNC connector)
Subcarrier Phase for Gen-Lock:
Adjustable more than 360°
Horizontal Phase for Gen-Lock:
Adjustable from −0.1 µsec to +1.5µsec
Ambient Operating Temperature:
0°C — +40°C
Ambient Operating Humidity:
Less than 90%
Dimentions:
83(W) × 130.5(H) × 84.5(D) mm
Weight:
0.4 kg

RCU Adaptor: WV-AD37

Power Source:
+12V (11V-20V), 1.7A DC
Video Output:
1.0Vp-p PAL composite/75 ohms × 1 (BNC connector)
Gen-Lock Input:
PAL composite signal or black burst signal/75 ohms (BNC connector)
Subcarrier Phase for Gen-Lock:
Adjustable more than 360°
Horizontal Phase for Gen-Lock:
Adjustable from −0.1 µsec to +1.5 µsec.
Colour Bar Signal:
EBU colour bar
Maximum Studio Cable Length:
100 m
Intercom:
Yes
Intercom Level:
Adjustable
Ambient Operating Temperature:
0°C — +40°C
Ambient Operating Humidity:
Less than 90%
Dimensions:
83(W) × 130.5(H) × 84.5(D) mm
Weight:
0.43 kg

12 x Studio Zoom Lens: WV-LZ15/12

Focal Length:
10.5 mm — 126 mm (12x)
Maximum Relative Aperture:
F1.6
Image Size:
8.8 mm × 6.6 mm
Iris:
Automatic or Manual, F1.6-22, C (close)
Focusing Range:
1 m — ∞

Field of View:	**Wide**	**Tele**
Horizontal:	44.3°	4.1°
Vertical:	33.9°	3.1°
Diagonal:	57.4°	4.9°

Macro Range:
1 m — 50 mm
Mount:
Special bayonet mount
Filter Size:
ϕ72 mm, P = 0.75
Lens Control:
Zooming/Focusing, controlled by lens control kit
Weight:
0.97 kg

35mm SLR Lens Mount Adaptor

This adaptor is used to mount a bayonet type 35mm SLR lens onto the WVP-F10 camera.

Model No.	Description	Diameter (mm)	Length (mm)	Weight (g)
WV-LT21	For CANON lens	60	29	55
WV-LT22	For NIKON lens	60	33	88
WV-LT23	For MINOLTA lens	60	30	102
WV-LT24	For OLYMPUS lens	60	32.5	88
WV-LT25	For PENTAX lens	60	32.5	88

Power Supply: WV-PS01A

Power Source:
220V or 240V AC, 50Hz
Cable Length:
Approx. 2m
Audio Output:
−20 dB/1K ohm
Dimensions:
86.0(W) × 71.5(H) × 138.0(D) mm
Weight:
1.0 kg

5″ B/W Electronic Viewfinder: WV-VF65

Visual size (underscan):
5″ actual image size, measured diagonally
Power Source:
+12V DC (supplied from camera head)
Power Consumption:
13.2 watts (12V DC 1.1 A)
Horizontal Resolution:
500 lines (at center)
Switches:
Tally ON/OFF, Peaking ON/OFF
Controls:
Contrast, Brightness
Display:
PAL signal
Indicator:
Level indicator (Zebra pattern)
Tally indicator
Tally lamp
Dimensions:
156(W) × 213(H) × 362(D) mm
Weight:
2.85 kg

5″ B/W Electronic Viewfinder Bracket: WV-Q39

Power Supply:
12V DC, 4.4mA
Power Consumption:
53 m Watts
Video Input:
1.0 Vp-p PAL composite/75 ohms × 1
Video Output:
1.0 Vp-p PAL composite/75 ohms × 1
Dimensions:
190(W) × 175(H) × 171(D) mm
Weight:
0.84 kg

Pan/Tilt Head: WV-PH10

Power Source:
12V DC 300mA max., supplied from 8 pcs of batteries (SUM-3, AM-3 or AA size)
Power Consumption:
3.6 watts
Panning/Tilting Control:
Remote controlled by camera remote controller WV-CR12 (option)
Panning Angle:
(Approx) −150° — +150°, adjustable panning range
Tilting Angle:
(Approx) −30° — +30°
Panning Speed:
(Approx) 5.8°/sec
Tilting Speed:
(Approx) 2.4°/sec
Load Weight:
Less than 5 kg
WVP-F10 + WV-LZ14/8AF
WVP-F10 + WV-LZ14/12
Maximum Cable Distance:
Remote control cable between WVP-F10/WV-PH10 and WV-CR12: 100 m
Camera Mounting Screw:
Standard N.C. 1/4″-20 thread × 1
Pan/Tilt Mounting Hole:
Standard N.C. 1/4″-20 thread × 1
Ambient Operating Temperature:
0°C — +40°C
Ambient Operating Humidity:
Less than 90%
Dimensions (with battery box):
90(W) × 144(H) × 150(D) mm
Weight (with battery box):
1.45 kg

AC Adaptor: WV-PS03

Power Source:
220V or 240V AC, 50Hz
Power Supply:
+12V DC, 0.8A
Power Consumption:
13 watts
Video Output:
1.0 Vp-p PAL composite/75 ohms × 1 (BNC connector) supplied from the camera/gen-lock adaptor WV-AD36
Audio Output:
−10dB/8.2 ohms (RCA 1-pin connector) supplied from the camera/gen-lock adaptor WV-AD36
Gen-Lock Input:
Composite signal or black burst signal/75 ohms or looping through (BNC connector)
Gen-Lock Output:
Composite signal or black burst signal, supplied to the gen-lock input connector (10-pin connector)
Ambient Operating Temperature:
0°C — +40°C
Ambient Operating Humidity:
Less than 90%
Dimensions:
83(W) × 130.5(H) × 84.5(D) mm
Weight:
0.65 kg

Weight and dimensions shown are approximate.
Specifications are subject to change without notice.
Note: All TV pictures are simulated.

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<N-178>

GEC
VIDEO SYSTEMS

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Fax (02) 888 3447

PRODUCT RELEASE SPECIAL

HI FI INDUSTRIAL PORTABLE KIT

COMPRISING -

AG6400	VHS HI FI PORTABLE RECORDER COMPLETE WITH AC ADAPTOR, BATTERY AND CARRY CASE.
WVPF10	SINGLE CHIP COMPONENT VIDEO CAMERA WITH CHOICE OF LENS.

SPECIAL PRICING -

TOTAL KIT INC. 8.1 ZOOM LENS		$4,939.00
	SAVES $500	
	USUAL COST $5,439.00	
TOTAL KIT INC. 12.1 ZOOM LENS		$5,238.00
	SAVES $525	
	USUAL COST $5,763.00	
TOTAL KIT INCL 12.1 ZOOM LENS AND GENLOCK ADAPTOR		$5,405.00
	SAVES $550	
	USUAL COST $5,955.00	

DO NOT MISS THESE NEVER TO BE REPEATED PRICES

GEC Australia Ltd. (Inc. in N.S.W.)